

SHARP

LCD TV Monitor

LL-M17W1

17" Wide XGA (1,280 x 768)

LL-M15X1

15" XGA (1,028 x 768)

Stylish, incredibly thin LCD computer monitor

and full function television all in one.

A computer monitor never looked so good, or did so much.

 Built-in TV Tuner



LL-M17W1 



LL-M15X1 

■ Built-in TV Tuner lets you watch high resolution TV without having to start up your PC

This display is both a full function LCD TV with 181 channel TV tuner, and a superior quality LCD computer monitor. You can easily connect any video source including DVD players, VCR's, camcorders, Cable or Satellite TV, in addition to your personal computer.

■ 17" wide-screen LCD displays both your video source and computer information perfectly

The LL-M17W1 uses a extremely bright (400 cd/m²) 17-inch WXGA LCD with wide viewing angles (170° horizontally and vertically) and high contrast ratio (600:1), which displays clear images from any viewing angle.

Note: The LL-M15X1 has a brightness of 300 cd/m² viewing angles of 160° horizontally and 135° vertically and a contrast ratio of 350:1.

■ Picture-in-Picture function lets you work on your PC, while you watch your favorite video source in a smaller PIP window. (LL-M17W1)



■ Incredibly thin space saving design for easy portability

A built-in carrying handle lets you easily carry the monitor to different rooms in the house, like from your bedroom to the living room, depending on the video source. In addition, a protective panel is provided (LL-T17W1) to ensure bright pictures and protect against bumps and scratches when moving the monitor.



■ Environment-friendly design and Power Save mode

With a touch of a button on the remote control, these monitors can be switched to power saving mode ("Dark Mode") that reduces unnecessary screen brightness and lowers power consumption. They also place less burden on the environment than ever before, with the use of non-halogen material for the main unit cabinet and do not utilize Styrofoam packing.



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■ Sharp LCD TV lets you enjoy multimedia anywhere in your house or office



● As a game display



● As a PC monitor



● In the bedroom

These new LCD monitors display not only PC data, but also TV programs, DVD movies and video games. The built-in TV tuner allows you to watch TV programs at the touch of a button, even when your PC is turned off.

The LL-M17W1 has a 17-inch WXGA LCD screen with high brightness and contrast as well as exceptionally wide viewing angles for crisp and clear images, regardless of where you are sitting. S-Video and standard input jacks provide flexibility in connecting DVD players or other devices to the monitor. Plus, the Picture-In-Picture function lets you work on your PC while enjoying TV or a movie in a user-selected region of the monitor (size and location adjustable).

The LL-M15X1 is an entry-level model with a 15-inch XGA LCD screen with a brightness of 300 cd/m². It is also equipped with AV input jacks.

■ Adjustable Screen Size (LL-T17W1)

When in TV/AV mode, several screen size settings are available depending on the data source. You can enjoy TV programs in the normal 4:3 screen format. Wide Mode expands the image to fit full-screen, and Zoom Mode is best for most DVD movies.



● Normal Mode



● Wide Mode



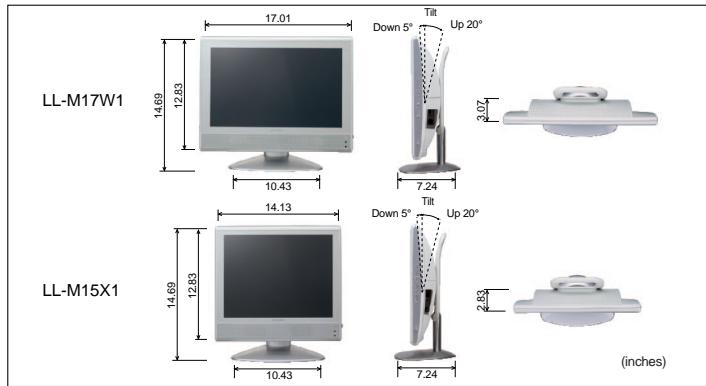
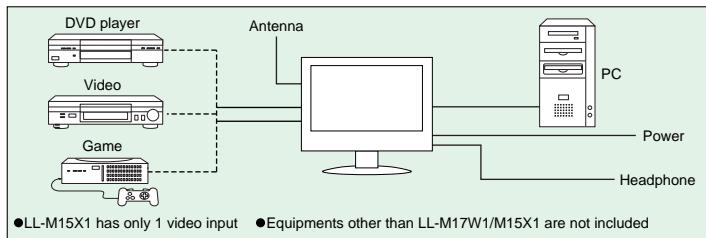
● Zoom Mode

■ Cable Management

Fed up with unsightly tangled cables? The integrated cable harness neatly bundles all cables on the rear of the monitor stand.



■ System Examples



■ More About this Product

■ Using the Product

● The TFT color LCD panel used in this monitor is made with the application of high precision technology. However, there may be minute points on the screen where pixels never light or are permanently lit. Also, if the screen is viewed from an acute angle there may be uneven colors or brightness. Please note that these are not malfunctions but common phenomenon of LCDs and will not affect the performance of the monitor. ● Do not leave the screen idle for a long periods of time with a static image, as this could cause an after image to remain. ● The estimated backlight life of 50,000 hours is based on specific conditions of use. Hours of life obtained will depend on the surroundings of the monitor and actual conditions of use.

■ Catalog Notes

● Sharp is a participant company in the International Energy Star® Program. It has been determined that this product conforms to the energy efficiency standards under the relevant category set by the International Energy Star Program. ● The displays shown on the LCD monitors appearing in photographs in this catalog are simulated images. ● Product specifications are subject to change without notice. Colors of products shown in this catalog may differ slightly from actual colors due to the limitations of the printing process. ● Windows® is a registered trademark of Microsoft Corporation in the United States and other countries. ● XGA® is a registered trademark of IBM Corporation. ● Macintosh® is a registered trademark of Apple Computer, Inc. ● All other product names are trademarks or registered trademarks of their respective companies.

■ Specifications

Model Name	LL-M17W1	LL-M15X1
Display resolution	WXGA 1,280 x 768 dots	XGA 1,024 x 768 dots
Display colors	16.19 million colors (6bit + FRC)	
Pixel pitch (H/V)	0.289mm x 0.289mm	0.297mm x 0.297mm
Brightness	400cd /m ² (TV/AV Mode) *1 260cd /m ² (PC Mode)	300cd /m ² (TV/AV mode & PC mode)
Contrast ratio	600:1	350:1
Viewing angle	Horizontal 170°/ Vertical 170° (CR≥10)	Horizontal 160°/ Vertical 135° (CR>5)
Response time	25ms	
Display area	14.6" x 8.7"	12.0" x 9.0"
Video	Analog RGB 0.7Vp-p[75Ω]	
Sync.	H/V separate input (TTL:Positive/Negative), Sync on Green, Composite Sync.(TTL:Positive/Negative)	
Video signal format	NTSC	
Auto adjustment	Clock, Phase, H-POS, V-POS	
Digital scaling	Full screen at fixed aspect ratio, Full screen	Enlargement to full screen
Plug & play	VESA DDC1/DDC2B	VESA DPMS
Power management		
User controls (PC Mode)	Brightness, White Balance, Contrast, Clock, Phase, Mode select (17W1), Sound Input select, Position (H/V), Language, MUTE, Bright mode, Picture-in-Picture, Auto power off	
User controls (TV/AV Mode)	Brightness, Contrast, White balance, Saturation, Hue, Sharpness, Channel set, MTS, Mode select (17W1), Bright mode, Sound Input select, MUTE, Volume, Off-Timer	
Picture-In-Picture	○	—
View mode selection	○	—
Still mode (TV/AV Mode)	○	—
PC video	Mini D-Sub 15 pin	
PC audio	Ø3.5mm mini stereo jack	
AV In 1	RCA, S-Video	RCA, S-Video
AV In 2	Component(Y/Pb/Pr), RCA	—
Audio in	RCA x 2	RCA x 1
Security	Kensington Lock	
Channel Coverage	VHF:2-13, UHF:14-69, CATV:1-125	
Sound	Headphone Speaker	Ø3.5mm mini stereo jack 2.7W x 2
Screen tilt angle	Up 20°, Down 5°	
Free mount interface	VESA 100mm pitch	VESA 75mm pitch
Backlight life	Approx. 50,000h *2 Approx. 25,000h *3	Approx. 50,000h
Operating temperature	5°C to 35°C (41°F to 95°F)	
Dimensions (W x D x H)	17.0" x 7.2" x 14.7"	14.1" x 7.2" x 14.7"
Weight	12.9lbs. (w/o AC adapter & cables)	9.7lbs. (w/o AC adapter & cables)
Power supply	AC100-240V, 50Hz / 60Hz	
Power consumption	55W (Power save mode 2W)	35W (Power save mode 2W)
Accessories	Analog Signal Cable (mini D-Sub 15pin - mini D-sub 15pin), AC-adapter, Power cord, PC audio cable(1.8m), Cable Clamp, CD-ROM (Utility including ICC Profile for WindowsR / MacintoshR), Antenna Cable(4.0m), Remote control unit, Batteries for RC (AAA), Operation Manual	

*1 When "White Balance" is set to "Warm"

*2 When "White Balance" is set to "Normal" *3 When "White Balance" is set to "Bright"

● VESA:Video Electronics Standards Association

● DDC:Display Data Channel ● DPMS:Display Power Management Signaling

■ Display Mode

Display Mode (pixels)	Horizontal	Vertical	Dot Frequency
VESA	31.5kHz	60Hz	25.175MHz
	37.9kHz	72Hz	31.5MHz
	37.5kHz	75Hz	31.5MHz
	35.1kHz	56Hz	36.0MHz
	37.9kHz	60Hz	40.0MHz
	48.1kHz	72Hz	50.0MHz
	46.9kHz	75Hz	49.5MHz
	48.4kHz	60Hz	65.0MHz
	56.5kHz	70Hz	75.0MHz
WXGA*	60.0kHz	75Hz	78.75MHz
	47.986kHz	60Hz	81.0MHz
	60.15kHz	75Hz	102.977MHz
	720 x 400	31.5kHz	70Hz
	640 x 480	35.0kHz	66.7Hz
US TEXT	832 x 624	49.7kHz	74.6Hz
	1,024 x 768	60.2kHz	75Hz
			80.0MHz
Power Macintosh	720 x 400	31.5kHz	70Hz
	640 x 480	35.0kHz	66.7Hz
	832 x 624	49.7kHz	74.6Hz

* WXGA 1,280 x 768 is only for LL-M17W1

■ Images can not be displayed if output from the PC is in interlaced.

■ Even if the signal is in one of the compatible display mode above, the display may not appear

■ on the screen correctly depending on the computer.

■ Frequencies for the Power Macintosh and Sun Ultra are reference values.

■ When connecting to one of the Power Macintosh Series and one of the Sun Ultra Series, an adapter (commercially available) may be necessary.

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